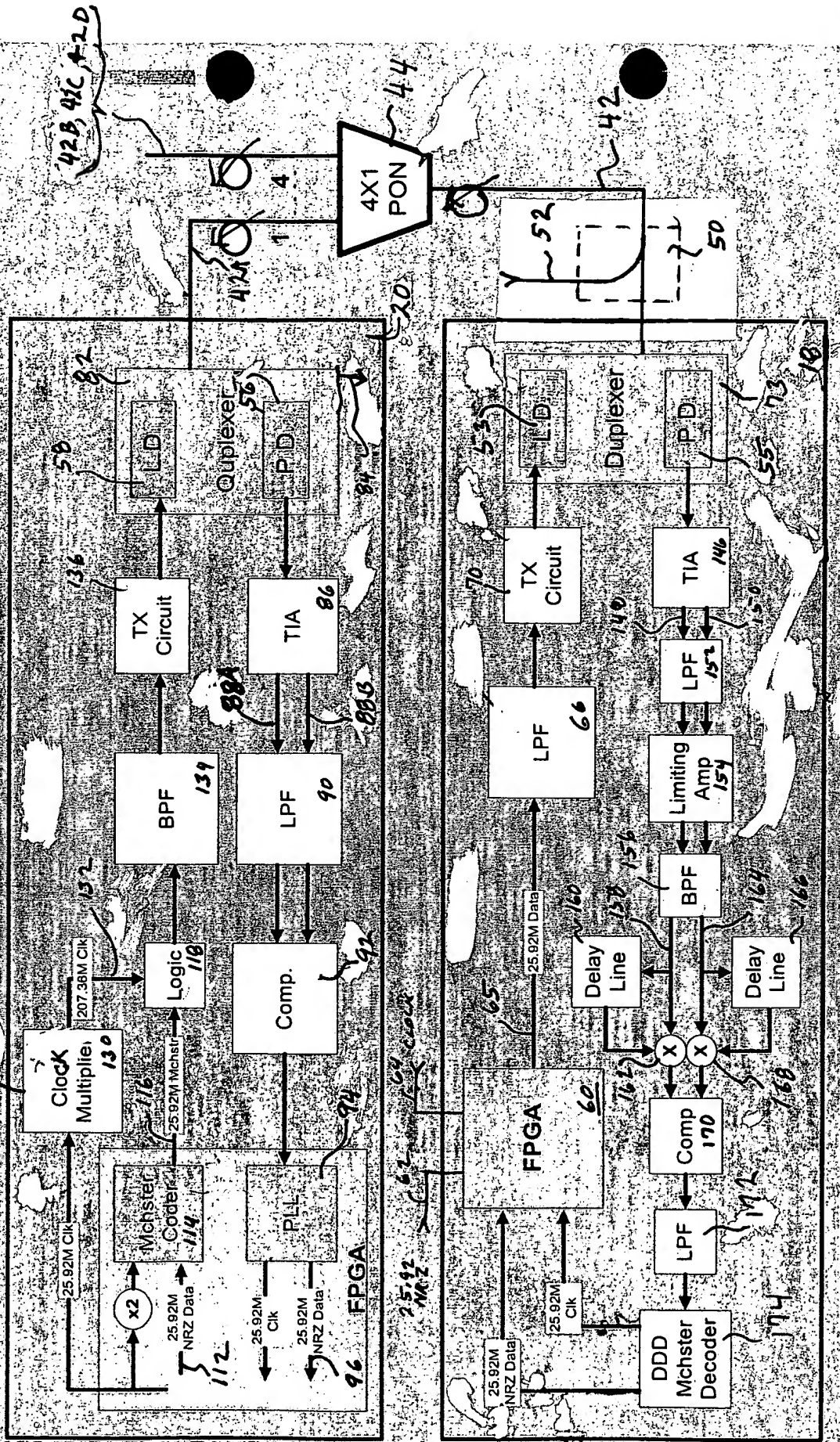


The diagram illustrates a complex optical communication setup. At the top, a box labeled 'CENTRAL OFFICE' contains an 'OIU' (Optical Interface Unit) which includes a 'PD' (Photodiode) and an 'LD' (Laser Diode). This unit is connected to a 'TV SIGNALS' source (labeled 55-890 MHz) through a switch/fiber cross ('SW F X'). A 'POTS' (Plain Old Telephone Service) interface is also depicted. The system uses various cables and connectors, including 'COAX' (coaxial) and 'POTS'. Numerous components are identified by numerical labels such as 10, 12, 16, 19, 20, 26, 28, 30B, 32B, 34, 38, 42, 44, 48, 51, 52, 53, 57, 58, 73, and 78. A 'GRAND BAND DATA' label is present at the bottom left.

FIG 3



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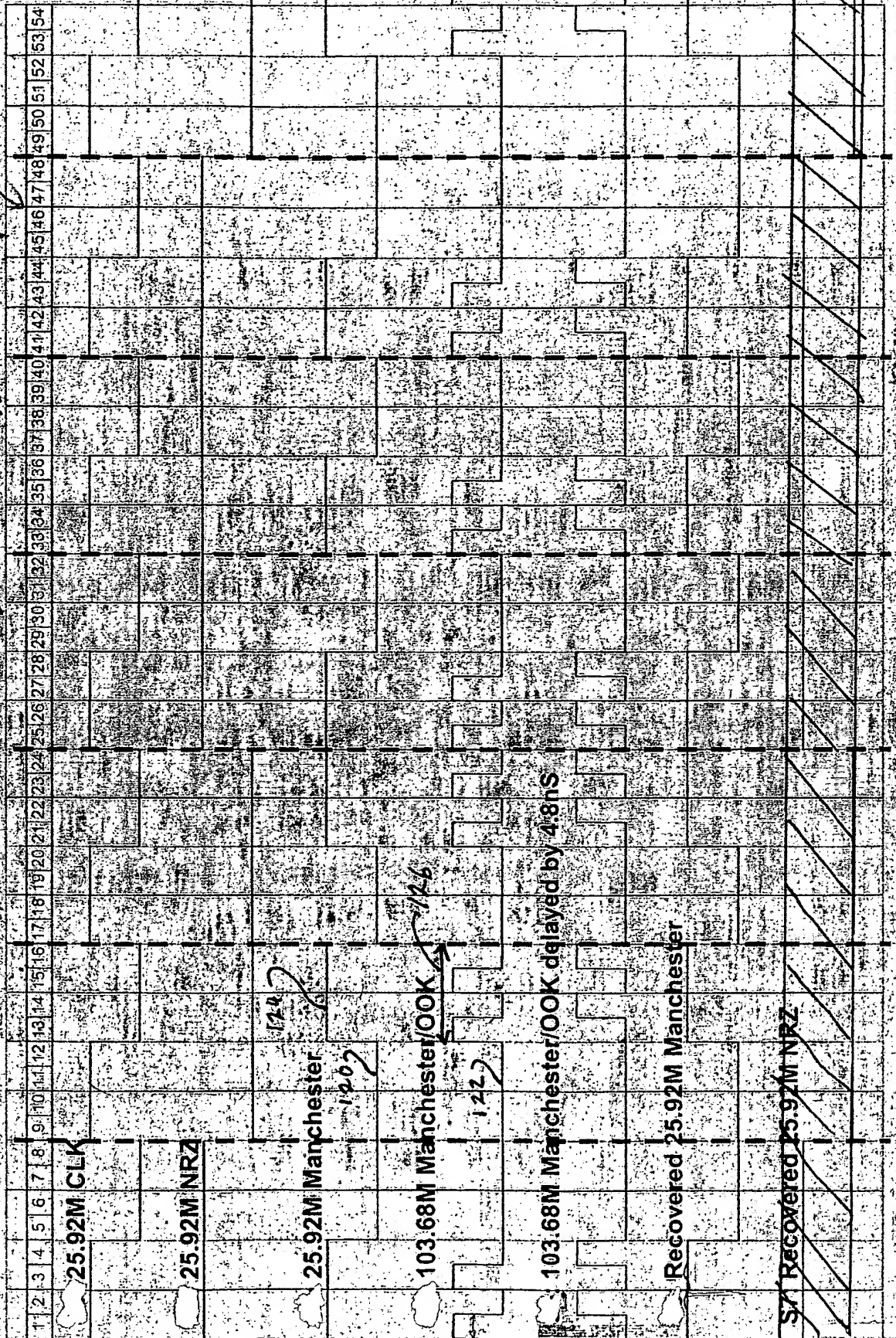
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FIG 4

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RECEIVED SIGNALING AND DECODING

98
100
102
104
106
108
110



5A
5B
5C
5D
5E
5F

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FIG 5

Power Spectrum of the transmitted signals in the Upstream and Downstream

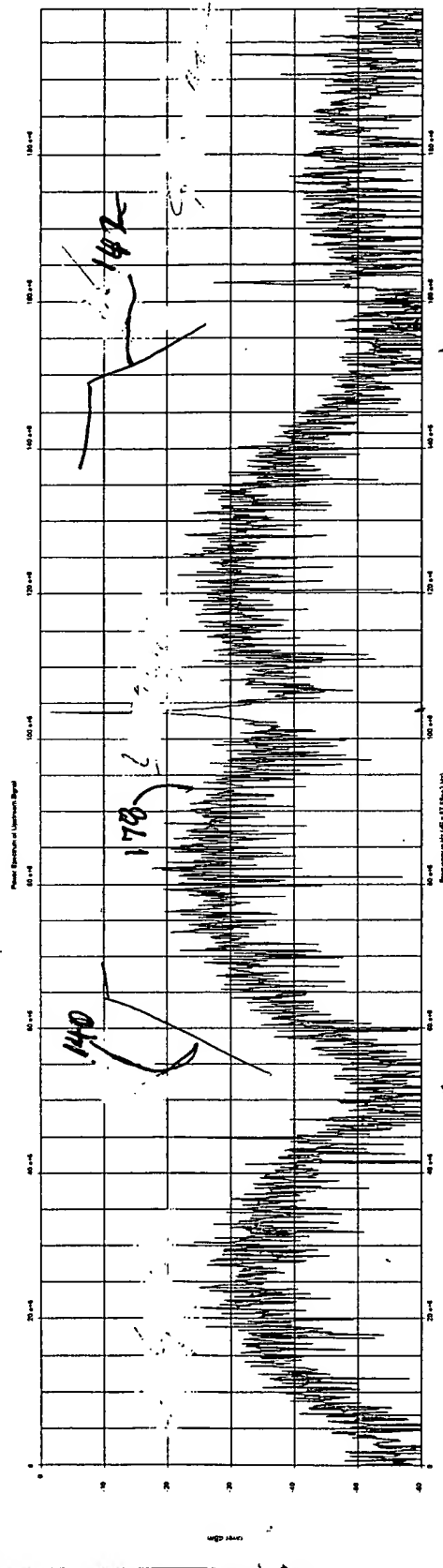
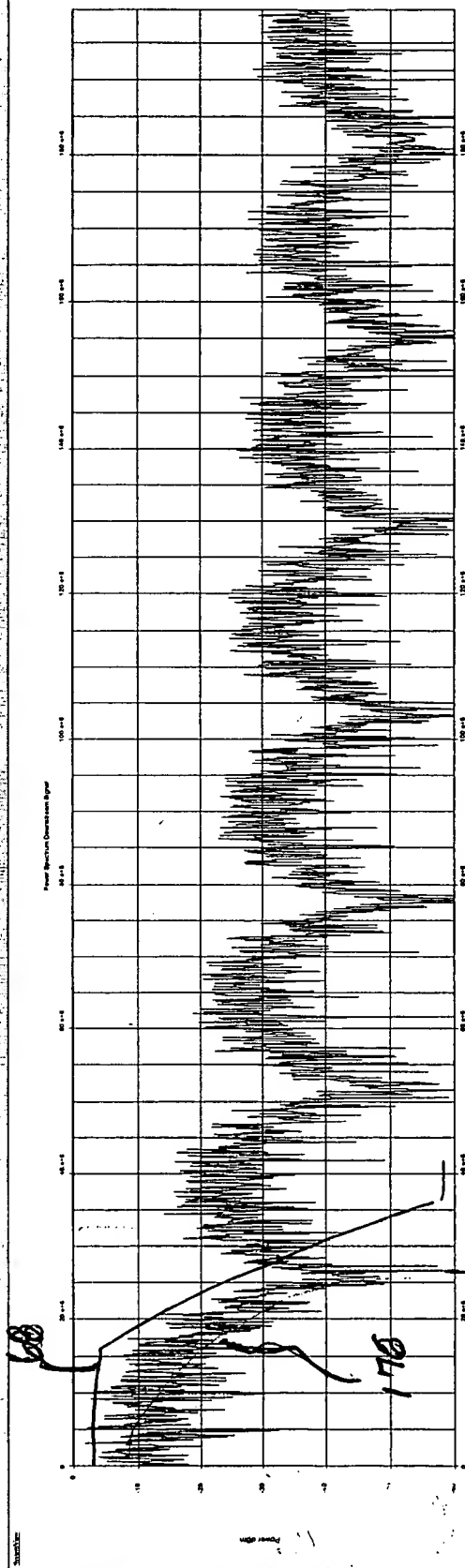


Fig A

Fig 6B

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150

The Isolation between DS signal and US reflection

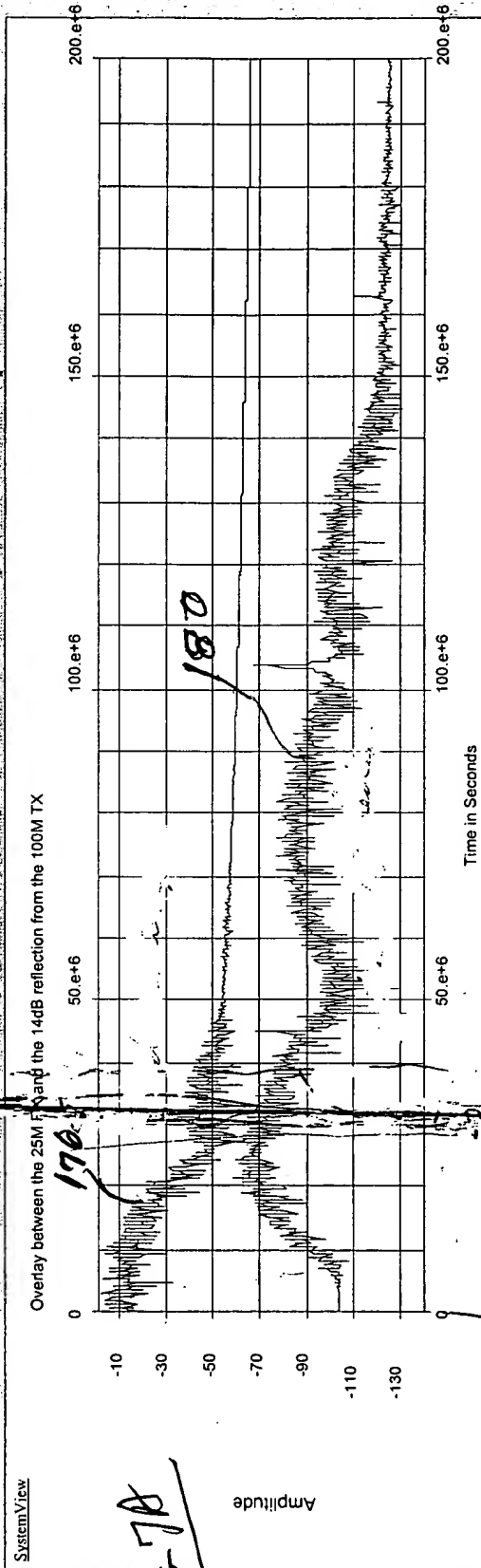


FIG 7A

Steven
ben-pn

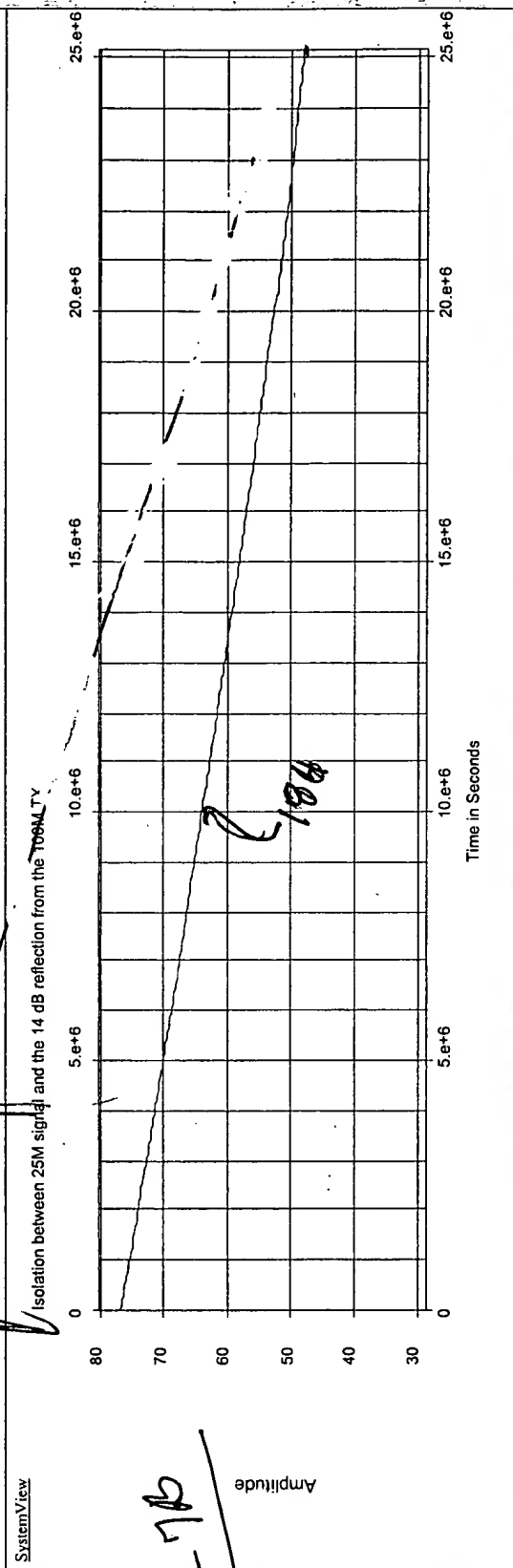
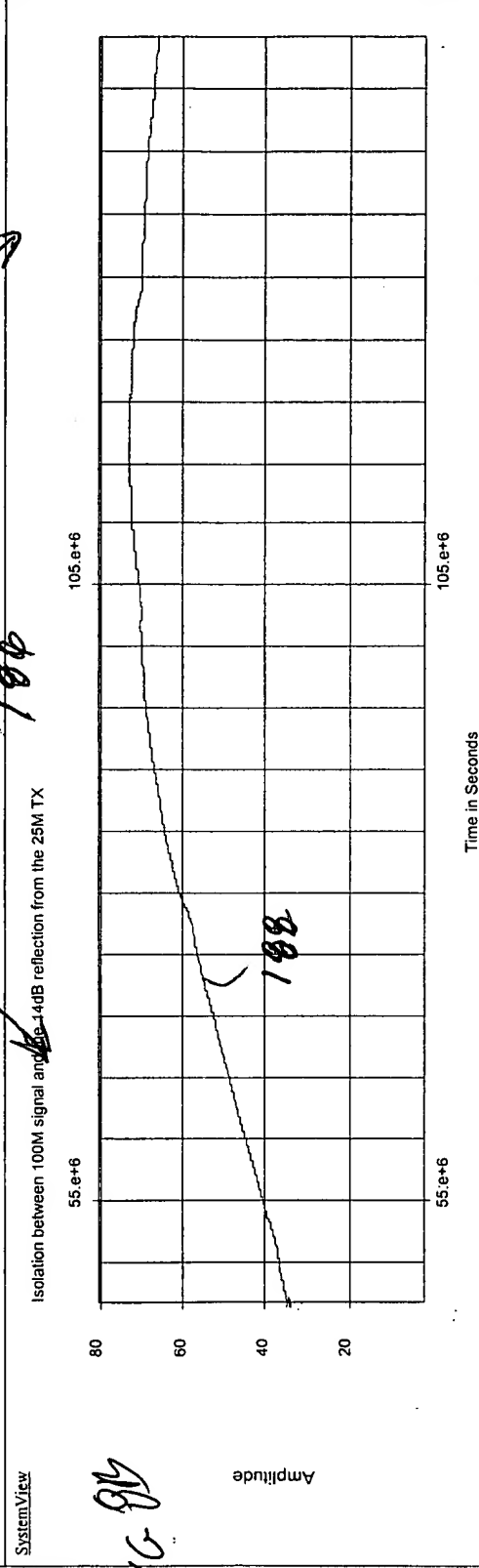
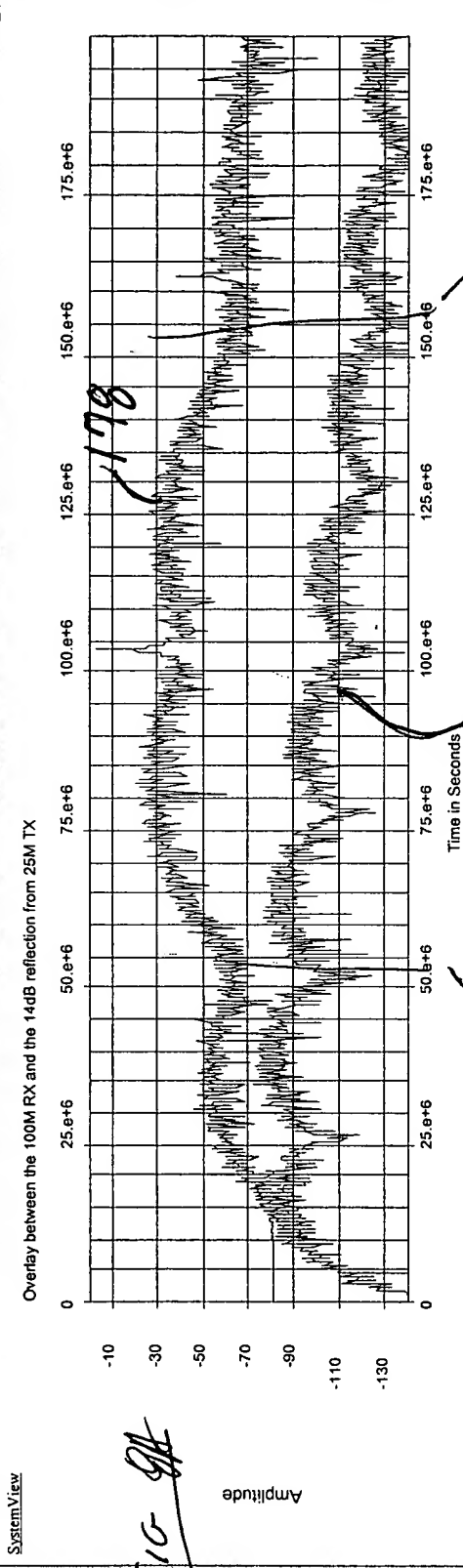


FIG 7B

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The Isolation between US signal and DS reflection

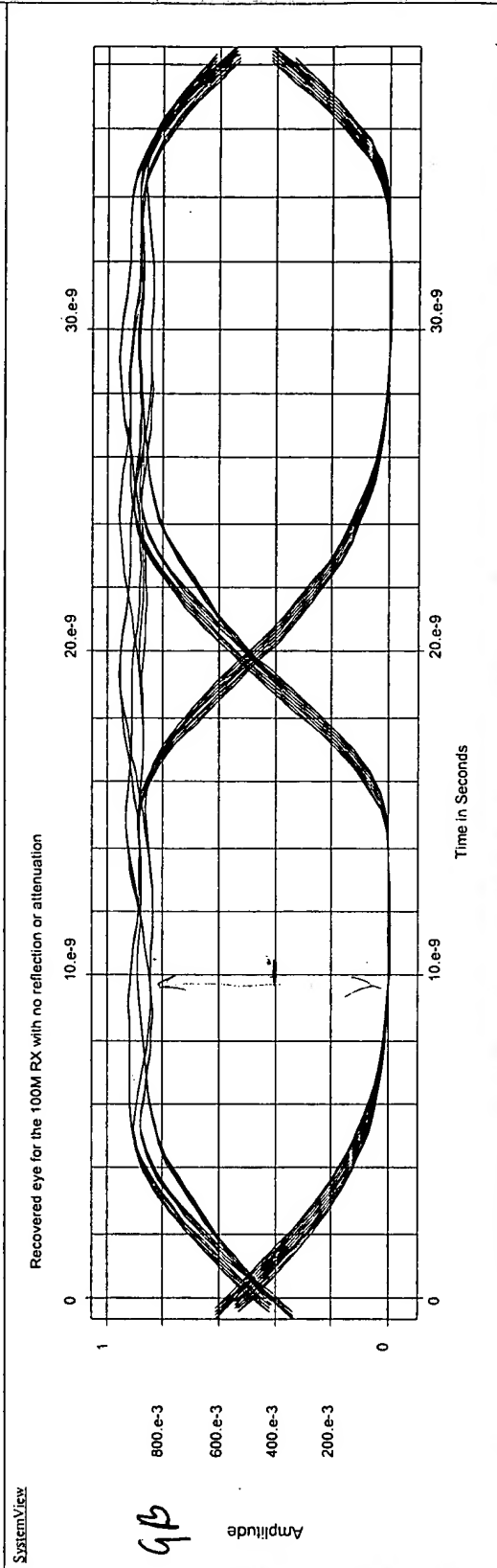
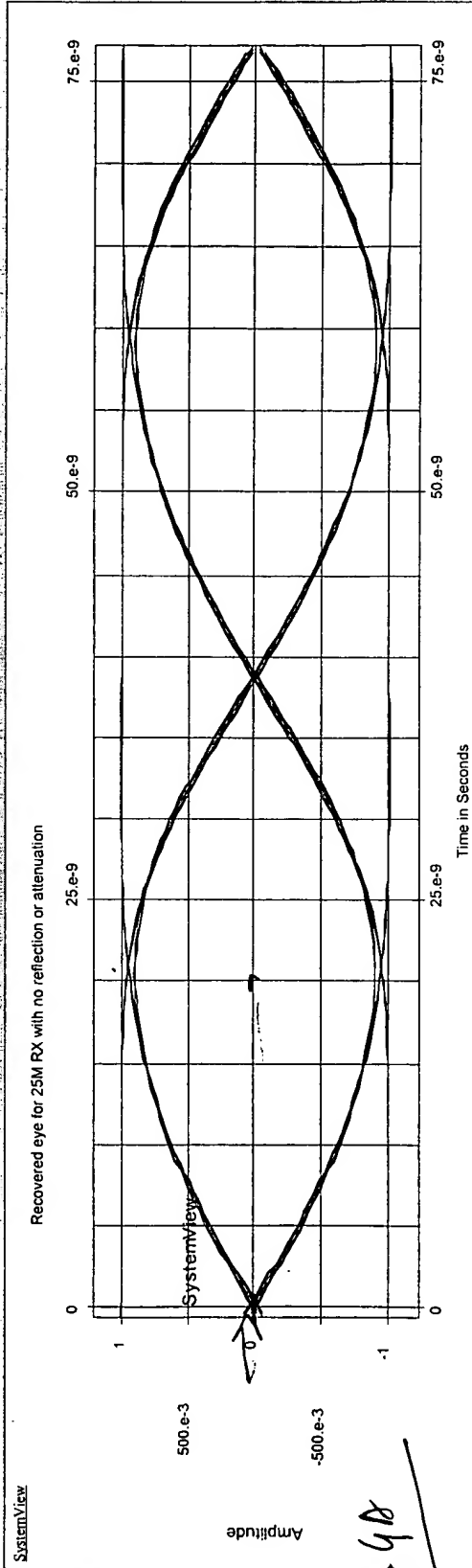


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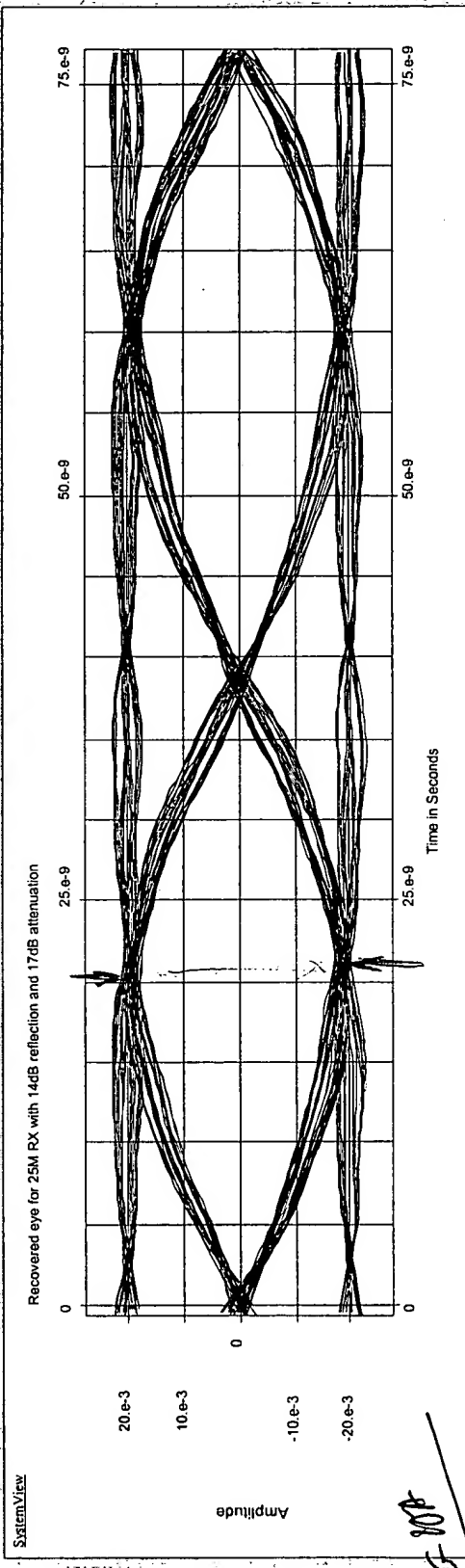
Eye Pattern for the Recovered DS and US Signals



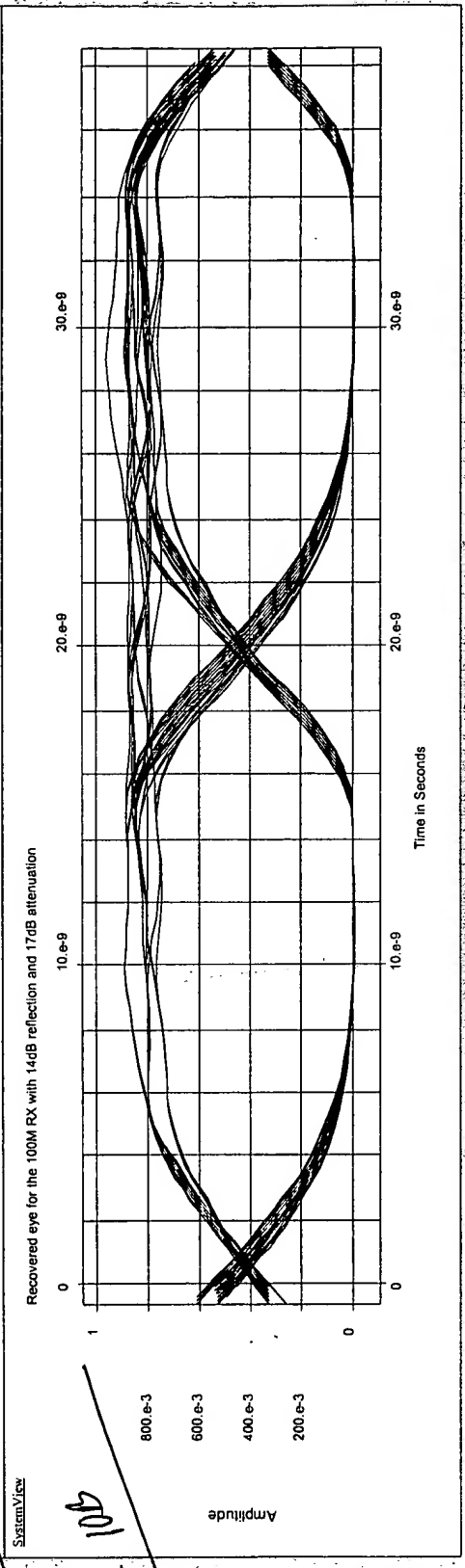
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Eye Pattern for the Recovered DS and US Signals in Presence of 17dB Attn. and 14dB Refl.



F-16 10P



10P

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